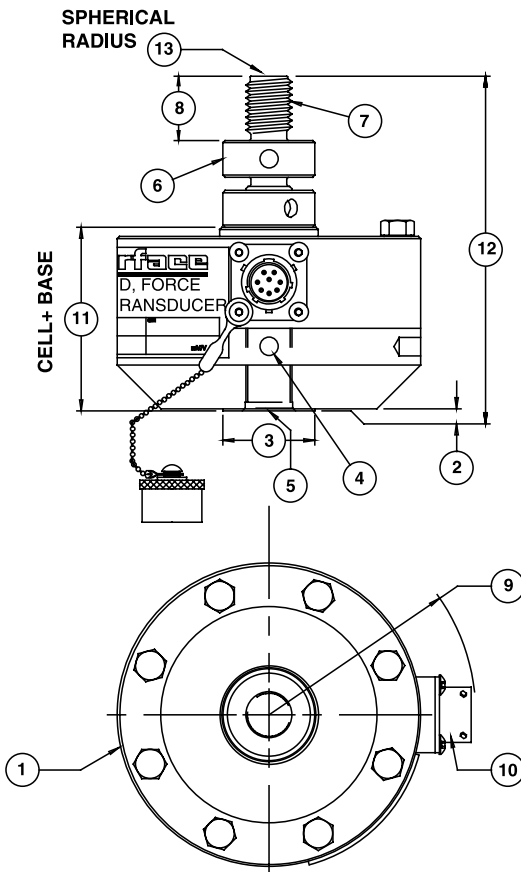


# Model 1600 Gold Standard™ Calibration Load Cell

Why the Interface model 1600 Gold Standard™ Calibration Load Cells are the best in class:

- Tension and compression in one unit
- .005% nonrepeatability
- .01% creep
- High output – to 4 mV/V
- High precision base installed
- 3 run NIST traceable ASTM E74 calibration
- Factory installed calibration adapter
- Eccentric load compensated
- .0008%/°F temp. effect on output
- 4% lower load limit per ASTM E74



## DIMENSIONS

See Drawing	MODEL							
	1610		1620		1632		1640	
	CAPACITY (lbf)		CAPACITY (lbf)		CAPACITY (lbf)		CAPACITY (lbf)	
	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)
	500, 1K, 2K, 5K, 10K	2.2, 4.5, 9, 22, 45	25K, 50K	110, 225	100K	450	200K	900
	inch	mm	inch	mm	inch	mm	inch	mm
①	4.13	104.80	6.06	153.90	8.00	203.20	11.00	279.00
②	0.03	00.80	0.03	00.80	0.03	00.80	0.03	00.80
③	1.25	31.80	2.25	57.20	3.00	76.20	4.50	114.30
④	0.25	06.40	0.31	07.90	0.31	07.90	0.31	07.90
	0.29 deep	7.4 deep	0.31 deep	7.9 deep	0.31 deep	7.9 deep	0.31	07.90
⑤	5/8-18 UNF-3B	M16x2-4H	1 1/4-12 UNF-3B	M33x2-4H	1 3/4-12 UNF-3B	M42x2-4H	2 3/4-8 UNF-3A	M72x2-4H
	0.87 deep	22.1 deep	1.40 deep	35.6 deep	1.75 deep	44.45 deep	2.75 deep	69.8
⑥	CA-101	CA-201	CA-102	CA-202	CA-103	CA-203	Integral	
⑦	5/8-18 UNF-3A	M16x2-4h	1 1/4-12 UNF-3A	M33x2-4h	1 3/4-12 UNF-3A	M42x2-4h	2 3/4-8 UNF-3A	M72x2-4h
⑧	0.75	19.1	1.50	38.1	2.00	50.8	2.75	72
⑨	2.81	71.4	3.50	88.9	4.50	114.3	6.19	157
⑩	PT02E-12-8P		PT02E-12-8P		PT02E-12-8P		PT02E-12-8P	
⑪	2.50	63.5	3.50	88.9	4.50	114.3	6.50	165
⑫	4.38 ±.12	111.3 ±.31	6.38 ±.12	162.1 ±.31	8.62 ±.12	18.9 ±.31	10.5 ±.12	267 ±.31
⑬	6.00	152.4	6.00	152.4	12.0	305.0	18.0	457

## SPECIFICATIONS

PARAMETERS	MODEL					
	1610	1610	1610	1620	1632	1640
	CAPACITY (lbf)					
U.S. Models (lbf) Metric Models (kN)	500 2.2	1K, 2K 4.5, 9	5K, 10K 22, 45	25K, 50K 110, 225	100K 450	200K 900
<b>ACCURACY – (MAX ERROR)</b>						
Static Error Band-% FS	±0.02	±0.02	±0.025	±0.03	±0.05	±0.05
Nonlinearity-% FS	±0.03	±0.03	±0.04	±0.04	±0.05	±0.05
Hysteresis-% FS	±0.02	±0.02	±0.04	±0.05	±0.05	±0.05
Nonrepeatability-% RO	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005
Creep, 20 min-%	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
Side Load Sensitivity-%	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
Eccentric Load Sensitivity-%/in	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
Lower Load Limit-% Cap. (ASTM E74 CLASS A)	4.0	4.0	4.0	4.0	4.0	4.0
<b>TEMPERATURE</b>						
Compensated Range-°F	15 to 115	15 to 115	15 to 115	15 to 115	15 to 115	15 to 115
Compensated Range-°C	-10 to 45	-10 to 45	-10 to 45	-10 to 45	-10 to 45	-10 to 45
Operating Range-°F	-65 to 200	-65 to 200	-65 to 200	-65 to 200	-65 to 200	-65 to 200
Operating Range-°C	-55 to 90	-55 to 90	-55 to 90	-55 to 90	-55 to 90	-55 to 90
Effect on Zero-%RO/°F – MAX	±0.0004	±0.0004	±0.0004	±0.0004	±0.0004	±0.0004
Effect on Output-%/°F – MAX	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008	±0.0008
<b>ELECTRICAL</b>						
Rated Output-mV/V (Nominal)	2.0	2.0	4.0	4.0	4.0	4.0
Excitation Voltage-VDC – MAX	20	20	20	20	20	20
Bridge Resistance-Ohm (Nominal)	350	350	350	350	350	350
Zero Balance-% RO	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0
Insulation Resistance-Megohm	5000	5000	5000	5000	5000	5000
<b>MECHANICAL</b>						
Safe Overload-% CAP	±150	±150	±150	±150	±150	±150
Deflection @ RO-inch	0.002	0.002	0.004	0.004	0.006	0.010
Weight-lb	3.8	3.8	8.0	23.5	58	171
Connector	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P	PT02E-12-8P
Calibration	T & C	T & C	T & C	T & C	T & C	T & C

### OPTIONS

Compression Overload Protection  
 Multiple Bridge - Addt'l Bridges to Meet 1200 Series Specifications  
 Standardized Output  
 ASTM E74 Calibration  
 Connector Protection  
 Low Profile Options

### STANDARD CONFIGURATIONS

PT02E-12-8 Connector (16xxAJH-nn)

### ACCESSORIES

Precision mV/V Transfer Standard  
 Instrument Cable Assemblies  
 Signal Conditioning Boards  
 Calibration Software

Consult factory for more technical information